

This Page Is Inserted by IFW Operations
and is not a part of the Official Record

BEST AVAILABLE IMAGES

Defective images within this document are accurate representations of the original documents submitted by the applicant.

Defects in the images may include (but are not limited to):

- BLACK BORDERS
- TEXT CUT OFF AT TOP, BOTTOM OR SIDES
- FADED TEXT
- ILLEGIBLE TEXT
- SKEWED/SLANTED IMAGES
- COLORED PHOTOS
- BLACK OR VERY BLACK AND WHITE DARK PHOTOS
- GRAY SCALE DOCUMENTS

IMAGES ARE BEST AVAILABLE COPY.

**As rescanning documents *will not* correct images,
please do not report the images to the
Image Problems Mailbox.**

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
26 April 2001 (26.04.2001)

PCT

(10) International Publication Number
WO 01/29738 A2

(51) International Patent Classification⁷: G06F 17/60

(21) International Application Number: PCT/US00/29103

(22) International Filing Date: 23 October 2000 (23.10.2000)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
09/421,401 21 October 1999 (21.10.1999) US

(71) Applicant: HYBRINET, INC. [US/US]; 7950 National Highway, Pennsauken, NJ 08110 (US).

(72) Inventors: VASTARDIS, Leo, J.; 5 Pepperbush Lane, Moorestown, NJ 08057 (US). DESTEFANO, Christopher, R.; 225 Rector Place, New York, NY 10280 (US). MURRAY, Joseph, B.; 33 Chestnut Terrace, Cherry Hill, NJ 08057 (US). GAYESKI, John, I.; 315 Summer Road, Neshanic Station, NJ 08853 (US).

(74) Agent: BOSWELL, MaryJane; Morgan, Lewis & Bockius LLP, 1800 M Street 1800, Washington, DC 20036-5869 (US).

(81) Designated States (*national*): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW.

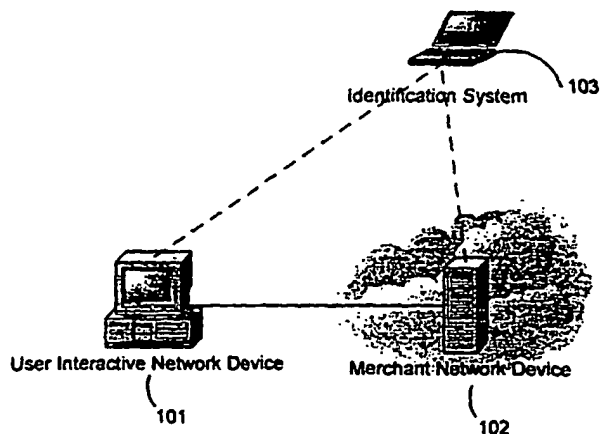
(84) Designated States (*regional*): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG).

Published:

— Without international search report and to be republished upon receipt of that report.

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: HYBRID VERTICAL SALES SYSTEM FOR BRIDGING A GAP BETWEEN THE ONLINE WORLD AND PHYSICAL STORES



(57) Abstract: A hybrid sales system that bridges a gap between the online world and physical stores includes at least one merchant network device, at least one user interactive network device, and at least one identification system. The merchant network device, the user interactive network device, and the identification system are interconnected by a network. The merchant network device contains information regarding physical stores, is programmed to receive from a registered user at the user interactive network device a user request relating to a transaction, and to provide to the registered user a summary response to the user request. The summary response includes a list of physical stores that satisfy the user request. The user interactive network device is programmed to communicate with the merchant network device. Lastly, the identification system notifies the merchant network device or the user interactive network device, when the registered user completes a transaction at a physical store.



WO 01/29738 A2

**Hybrid Vertical Sales System For Bridging A Gap Between The Online World
And Physical Stores**

BACKGROUND OF THE INVENTION

Field of the Invention

5 The present invention relates to a hybrid sales system for bridging a gap between online virtual presences accessible through open networks, such as the Internet, and physical stores. The invention uses a plurality of devices, networks, and software to achieve a convenient and secure environment for marketing goods and services.

10 **Discussion of the Related Art**

Historically, an enormous amount of time, money, and effort has been expended by companies and individuals in order to advertise and sell their products and services. For generations, various media have been used to realize such business matters.

15 Recently, the pervasive nature of open networks, such as the Internet, has provided a global means to attract new customers and retain old customers. Purchasing can now be linked to advertising in this age of technology and rapidly evolving communications. Open networks transcend distance; a person from Bombay can sell a Cashmere sweater to another individual in Butte, Montana using
20 a virtual storefront, also known as a “web page”. All that is required to transition from information gathering to purchasing is client software to select merchandise and indicate the quantity, desired means of payment, and delivery options.

There are several drawbacks related to the aforementioned methodology

that are becoming more apparent as organizations rush headlong to secure their stake in this "online world."

The first disadvantage of this method is the overwhelming amount of
5 information that the customer must negotiate to find a particular item or service. Locating a particular good or service is a time consuming process that often results in the customer abandoning either the search or the completion of the transaction.

A second disadvantage is that the retailer and customers often have never had a prior relationship on which to base trust and a mutually satisfactory level of
10 credibility. The customer may wonder: "If I complete this transaction, will I really get my Cashmere sweater from this merchant in Bombay?" The retailer may ask: "Is this customer using a valid form of payment or is the customer in fact attempting to commit fraud?"

A third disadvantage is that several products and services do not lend
15 themselves to purchasing online; clothes and shoes are obvious examples as the types of products that must be examined physically to qualify several attributes that cannot be specified either by language or graphics.

The Internet-type business presents disadvantages for businesses such as home improvement, brick and mortar physical retailers. For many traditional
20 retailers, their business strength is physical location and established brand image. The Internet essentially evens the playing field, diluting brand image and handicapping physical distribution power.

Another major disadvantage for traditional retailers is the risk open

networks pose to foot traffic and impulse expenditures. Foot traffic is critical to many traditional retailers as impulse expenditures are responsible for generating up to 40% of total sales. Holding all else constant, the economics of online shopping differ greatly from that of traditional commerce. For instance, if
5 consumers go to the Gap.com to purchase a pair of chinos, they are likely to only locate the chinos, complete the transaction, and then log off. However, if these consumers physically go to a local Gap store to purchase the same chinos, it is likely that the shoppers also will purchase 1.5 additional items. Unfortunately, traditional retailers have not been able to design an open network solution that
10 will leverage their existing strengths and protect their valuable foot traffic.

In short, what is required is a hybrid solution that takes advantage of the information-centric nature of open networks combined with the recognized security and tactile experience of physical store transactions.

Thus, there is a great need in the art for an over-arching, comprehensive
15 system and method for finding and procuring commercial product and service information both on and off open networks, in a way which encompasses the advantages and avoids the shortcomings of previous methodologies that were concerned with solely addressing virtual storefronts or physical stores, but not both.

20 SUMMARY OF THE INVENTION

Accordingly, the present invention is directed to a hybrid sales system for bridging a gap between the online world and physical stores that substantially

obviates one or more of the problems due to limitations and disadvantages of the related art.

To achieve these and other advantages and in accordance with the purpose of the present invention, as embodied and broadly described, the hybrid sales

5 system that bridges a gap between the online world and physical stores comprises at least one merchant network device, at least one user interactive network device, and at least one identification system, which are interconnected by a network. The at least one merchant network device contains information regarding physical stores, is programmed to receive from a registered user at the at least one user interactive

10 network device at least one user request for information regarding at least one transaction, and to provide the registered user at least one summary response to the at least one user request including at least one list of physical stores that satisfy the at least one user request. Moreover, the at least one user interactive network device is programmed to communicate with the at least one merchant network device.

15 Finally, the at least one identification system notifies the at least one merchant network device when the registered user completes the at least one transaction at a physical store.

In another aspect, the invention includes a consumer purchase behavior analysis system to distinguish an impulse purchase from an non-impulse purchase

20 including at least one merchant network device, at least one user interactive network device, and at least one identification system, which are interconnected by a network. The at least one merchant network device contains information

regarding physical stores, is programmed to receive from a registered user at the at least one user interactive network device at least one user request for information relating to at least one transaction, and to provide to the registered user at least one summary response to the at least one user request. The at least one user interactive
5 network device is programmed to communicate with the at least one merchant network device. The at least one identification system notifies the at least one merchant network device when the registered user completes the at least one transaction at a physical store. At least one online browsing record and the at least one actual transaction record are stored in the at least one merchant network device,
10 the at least one user interactive network device, or the at least one identification system. Finally, the at least one online browsing record and the at least one actual transaction record are compared using the at least one merchant network device, the at least one user interactive network device, or the at least one identification system.

15 Additional features and advantages of the invention will be set forth in the description, which follows, and in part will be apparent from the description, or may be learned by practice of the invention. The objectives and other advantages of the invention will be realized and attained by the structure particularly pointed out in the written description and claims hereof as well as the appended drawings

20 It is to be understood that both the foregoing general description and the following detailed description are exemplary and explanatory and are intended to provide further explanation of the invention as claimed.

BRIEF DESCRIPTION OF THE DRAWINGS

The accompanying drawings, which are included to provide a further understanding of the invention and are incorporated in and constitute a part of this specification, illustrate embodiments of the invention and together with the

5 description serve to explain the principles of the invention. In the drawings:

FIG. 1 is an overall system block diagram of a preferred embodiment of a hybrid sales system of the present invention;

FIG. 2 is a flow chart depicting one embodiment of an operation of the present invention;

10 FIG. 3 is a flow chart depicting one embodiment of an operation of the present invention that includes rewarding a user;

FIG. 4 is an overall system block diagram of a preferred embodiment of a consumer purchase behavior analysis system of the present invention; and

15 FIG. 5 is a flow chart depicting one preferred embodiment of an operation of a consumer purchase behavior analysis system of the present invention.

DETAILED DESCRIPTION OF THE PREFERRED EMBODIMENTS

Reference will now be made in detail to the preferred embodiments of the present invention, examples of which are illustrated in the accompanying drawings.

With reference to FIG. 1, a preferred embodiment of a hybrid sales system

20 in accordance with the present invention includes at least one user interactive network device 101 operated by a registered user desiring to conduct a transaction with a physical store, at least one merchant network device 102, which includes

information regarding physical stores and is typically operated by a manager of the hybrid sales system, and at least one identification system 103.

The user interactive network device 101, the merchant network device 102, and the identification system 103 are interconnected by a network. In FIG. 1, a
5 solid line between two devices indicates that the two devices must be able to communicate with each other. A broken line between two devices indicates that the two devices may or may not communicate directly with each other.

Networks used to connect the user interactive network device 101, the merchant network device 102, and the identification system 103 may be terrestrial
10 systems including the Internet, phone lines, cable lines, and fiber optic cables, or wireless communication systems. One or more types of networks may be used to connect the devices that comprise the hybrid sales system. For example, the user interactive network device 101 may access the Internet using an Internet service
15 web page. The identification system 103 may use a telephone line to communicate with the merchant network device 102. This and other network configurations of the hybrid sales system will be known to those skilled in the art, and are within the scope of this invention.

A user of the hybrid sales system must register with the merchant network
20 device 102 before being able to make a full use of the hybrid sales system. While the merchant network device 102 may grant an unregistered user an access, registration is necessary, for example, to reward the user for using the hybrid sales

system. Registration can be done in a variety of ways such as using the Internet, telephone or mail.

The user interactive network device 101 may be a personal computer with an Internet access. Alternatively, it can be a dummy terminal with an access to the Internet through a server machine or an information appliance such as a personal data assistant or cellular phone. Dummy terminals may be provided in a kiosk-like setting within a shopping mall or other public areas to grant a convenient access to the merchant network device 102. Other user interactive network devices will be known to those skilled in the art, and are within the scope of the present invention.

The merchant network device 102 contains information regarding physical stores. Typically, the merchant network device 102 maintains a database containing information regarding products or services. For example, database for a clothing store may contain information regarding style, material, color, size, quantity, and price. Database for a doctor's office, on the other hand, may contain description of services provided, fees charged for each service, information on doctors, and types of health insurances accepted.

In addition, the merchant network device 102 is programmed to receive a user request from the user interactive network device 101, generate a summary response based on the user request, and to send a summary response to the user interactive network device 101. The merchant network device 102 is also programmed to communicate with the identification system 103 so that the merchant network device 102 can receive information regarding transactions at

physical stores.

The identification system 103 is capable of communicating with the merchant network device 102 or the user interactive network device 101 when the registered user completes a transaction at a physical store. The identification

5 system 103 also allows the registered user to identify himself or herself so that transactions can be tied to the user. The identification system 103 may be a wireless information device, a non-volatile area of memory of the user interactive network device 101, a memory card and a card reader, a microprocessor card and a card reader, a magnetic card and a card reader, a finger print scanning device and a

10 point-of-transaction network device, an iris-scanning device and a point-of-transaction network device, a face recognition device and a point-of-transaction network device, or a voice recognition device and a point of transaction network device. The identification system 103 can also be an information appliance integrated with the user interactive network device 101, such as a Personal Data

15 Assistant, cellular telephone, interactive pager, and set-top box. Other identification systems will be known to those skilled in the art, and are within the scope of this invention. The identification system 103 also may require the user to manually enter his or her identification code. Alternatively, the user interactive network device 101 may function as the identification system 103.

20 The system shown in FIG. 1 may be set up to ensure security of transaction and data, by securing the devices in the system and network interconnecting them. This may be done, for example, by using a password based access limitation,

common encryption software or hardware, or common authentication/general cryptographic software or hardware. Other security tools will be known to those skilled in the art, and are within the scope of the present invention. In addition, by encrypting data regarding users of the system, the system can protect privacy of the
5 users.

The present invention can be used to help a user locate a variety of products and services available at physical stores. Products can be almost anything that is sold at stores, including clothing, grocery, personal care items, books, jewelry, bicycles, automobiles, and furniture. Types of services also may vary widely,
10 including medical care, personal care and dependent care. In other words, the application of this invention is not limited to any particular product or service.

FIGS. 2 and 3 are flowcharts showing preferred embodiments of various uses of a hybrid sales system of the present invention. Some of the steps shown in the flow charts may be implemented in a computer program that may be installed in
15 the user interactive network device, the merchant network device, or the identification system.

FIG. 2 is a flow chart depicting one embodiment of a process using a hybrid sales system of the present invention. The process starts when a user accesses the merchant network device using the user interactive network device in step 201. In
20 step 202, the user sends a user information request from the user interactive network device to the merchant network device. Then, the merchant network device constructs a summary response to the user request and sends it to the user in

steps 203 and 204. The summary response is displayed at the user interactive network device in step 205. In step 206, the user has an option of repeating steps 202 through 205.

In step 207, the user decides whether to complete one or more of the transactions that he or she inquired about in steps 202 through 205 at one or more physical stores. Generally, the user completes a transaction at a physical store listed in one of the summary responses provided by the merchant network device. However, the user may choose to go to a physical store that is equipped with an identification system but was not listed in the summary responses. At a physical store, the user completes a transaction using the identification system in step 208. Finally, in step 209, the identification system notifies the merchant network device or the user interactive network device about the transaction completed by the user.

In a user request issued in step 202, a user may be allowed to specify various characteristics of a product or a service provider. If a user knows exactly what he or she wants, the user may specifically identify that particular item or service provider, such as a man's navy double-breasted wool jacket by Burberry in size 40 or a female pediatrician with at least 10 years of experience who belongs to a certain HMO group. On the other hand, a user may request the merchant network device to find items or service providers that meet certain criteria. For example, the user may ask the merchant network device to find all man's navy double-breasted wool jackets in size 40 or all travel agencies that specialize in domestic business travel reservations.

Furthermore, a user may be allowed to specify not only types of a product or service that he or she is interested in but also various criteria for physical stores in a user request. For example, a user may require a physical store to be located within a certain distance from his or her home. A user may wish to go to a store
5 located at a certain shopping center or specify a name of a particular chain, such as Sears, K-Mart, Bloomingdale's, or American Express Travel Service. A user also may require physical stores to carry the desired item or service at or below a certain price or offer a certain level of customer service.

A summary response constructed by the merchant network device also may
10 include information other than a list of physical stores that meet user's criteria set forth in the user request. For example, a user requests a department store within 10 miles of the user having a size 2 navy wool suit by Ellen Tracy, but the merchant network device does not find any department store that has the desired product in stock. The merchant network device may give a list of department stores outside
15 the 10-mile range that carry similar items. Alternatively, it may prompt a user to enter another user request in order to change one or more of the search criteria or to request an entirely new search.

FIG. 3 depicts another embodiment of a process that can be implemented using the present invention. This process starts when a user accesses the merchant
20 network device using the user interactive network device in step 301. In step 302, the user sends a user information request from the user interactive network device to the merchant network device. Then the merchant network device constructs a

summary response to the user information request and sends it to the user in steps 303 and 304. The summary response is displayed at the user interactive network device in step 305. In step 306, the user has an option of repeating steps 302 through 305. In step 307, the user decides whether to complete a transaction specified in the user request at a physical store. At a physical store, the user completes a transaction using the identification system in step 308. Then, in step 309, the identification system notifies the merchant network device or the user interactive network device about the transaction completed by the user. Finally, in step 310, a user is rewarded for completing a qualifying user transaction.

10 The merchant network device can be programmed to flexibly define qualifying user transactions to encourage its users to use a hybrid sales system. Examples of qualifying user transactions include simply accessing the at least one merchant network device to inquire about a certain transaction, completing a transaction specified in the at least one user request issued in step 302, and
15 completing a transaction specified in the at least one user request issued in step 302 at a physical store listed in a summary response provided to the user in steps 304 and 305. Other qualifying user transactions are known to those skilled in the art, and are within the scope of the present invention.

 There are many types of user rewards that a hybrid sales system may
20 provide to its users. Examples of user rewards include electronic cash, a merchandise or service selected from an online or physical catalog, a gift certificate redeemable at certain stores in an electronic or paper form, airline frequent flyer

miles, electronic credits, and a cash refund. Other user rewards are known to those skilled in the art, and are within the scope of the invention.

The merchant network device may be programmed to provide one or more types of rewards. The merchant network device maintains a database containing
5 information necessary to compute user rewards and is programmed to calculate or distribute user rewards. The user interactive network device or the identification system also may contain relevant information regarding user rewards. In such cases, the merchant network device is further programmed to communicate with the user interactive network device or the identification system to collect user-reward
10 related information and to compute or to distribute rewards. The merchant network device may issue user rewards to the user interactive network device or to the merchant network device itself, which is programmed to allow a user to redeem such rewards.

Any one of the steps shown in FIGS. 2 and 3 may be implemented to ensure
15 security of that step. For example, a step may be secured by using various data encryption or user authentication methods. Such security measures can be implemented using software or by embedding security features into hardware. In addition, a network connecting the merchant network device, the user interactive network device, and the identification system also may be secured using various
20 network security hardware and software. Other means for securing the steps and system will be known to those skilled in the art, and are within the scope of the invention.

FIG. 4 is an over all system block diagram of one preferred embodiment of a consumer purchase behavior analysis system of the present invention. The system in FIG. 4 includes at least one user interactive network device 401 operated by a registered user desiring to conduct a transaction with a physical store, at least one merchant network device, which includes information regarding physical stores and is typically operated by a manager of the system, and at least one identification system 403. The user interactive network device 401, the merchant network device 402, and the identification system 403 are interconnected by a network. In FIG. 4, a solid line between two devices indicates that the two devices must be able to communicate with each other. A broken line between two devices indicates that the two devices may or may not communicate directly with each other.

Each of the devices in FIG. 4 is described in detail in conjunction with FIG. 1, including types of devices that can be used as the identification system 403.

In addition to the devices that are also used in the system depicted FIG. 1, the system in FIG. 4 includes database for storing online browsing records 404 and actual transaction records 405. Online browsing records may include information regarding user requests and summary responses. They also may include information regarding items or services that the user has simply "browsed" or looked at without asking for further information by issuing a user information request. Actual transaction records may include information regarding a transaction performed by a user at a physical store. While the preferred embodiment shows that both online browsing and actual transaction records are

kept by the merchant network device 402, the two records also can be maintained by the user interactive network device 401 or the identification system 403. The two records may even be kept by two different devices. For example, in another embodiment, online browsing records may be kept in the user interactive network
5 device 401 and is compared against actual transaction records in the merchant network device 402, whenever a user accesses the merchant network device 402.

By comparing online browsing records against actual transaction records, it is possible to distinguish an impulse purchase from a non-impulse purchase. For example, a user uses the system to inquire about locations of physical stores that
10 carry a blue cotton t-shirt of a certain size. The online browsing record for this transaction, which includes a description of the item requested and a list of stores given to the user, is stored in the merchant network device 402. A few days after accessing the merchant network device 402 to locate a store, the user goes to one of the stores listed in the summary response to purchase the shirt. Once at the store,
15 the user decides to purchase not only the shirt but also a pair of jeans and socks to go with the shirt. At the checkout, the identification system 403 identifies the user and notifies the merchant network device 402 or the user interactive network device 401. The record of this transaction, which includes the identity of the user and items purchased, is stored in the merchant network device 402. By comparing the
20 online browsing record and the actual transaction record, one can determine which items are planned purchases and which items are un-planned or impulse purchases.

While the above example applied the system to distinguish an impulse

purchase from an non-impulse purchase, various other types of useful information can be obtained by comparing the two records. For example, such comparison may be used to identify stores that the user is more likely to visit, factors that affect the user in choosing a store, or an average spending per visit.

5 The system may be set up to ensure security of transaction and data, including database containing online browsing records and actual transaction records, by securing the devices and data in the system and by securing the network interconnecting them. This may be done, for example, by using passwords and/or encryption software or hardware. To protect the privacy of the users, it may be
10 necessary to encrypt database containing online browsing and actual transaction records and to implement various measures to limit access to such database. Other means for securing the system will be apparent to those skilled in the art and are within the scope of the present invention.

FIG. 5 shows one embodiment of a process that uses a consumer purchase
15 behavior analysis system of the present invention. In step 501, a user accesses the merchant network device using the user interactive network device. The user then sends a user information request in the step 502. In steps 503 and 504, the merchant network device constructs a summary response and sends it to the user. In step 505, the user views the summary response at the user interactive network
20 device. The user may then decide whether to repeat the steps 502 through 505 in step 506. In step 507, the online transaction record is stored. In step 508, the user decides whether to go to a physical store to complete one or more transactions at a

physical store. At a physical store, the user completes the transaction using the identification system in step 509 and the identification system notifies the merchant network device or the user interactive network device in step 510. The record of the actual transaction is stored in step 511. Finally in step 512, the online transaction record and the actual transaction record are compared.

During the comparison step 512, it is important not to limit the scope of the comparison to the records corresponding to most recent online browsing and most recent actual transaction. For example, a user might go to a store several weeks after inquiring about a certain transaction to complete that transaction. Meanwhile, the user might access the system to inquire about different transactions. Thus, it is advisable to compare actual transaction records with online transaction records dated several weeks or even months prior to the actual transaction.

Any one of the steps shown in FIG. 5 may be implemented to ensure security of that step. For example, a step may be secured by using data encryption or user authentication methods. Such security measures can be implemented using passwords, encryption software, or hardware with embedded security features. In addition, a network connecting the merchant network device, the user interactive network device, and the identification system also may be secured using various network security hardware and software. Other means of securing the steps and system will be known to those skilled in the art, and are within the scope of the invention.

It will be apparent to those skilled in the art that various modifications and

variations can be made in the hybrid sales system for bridging a gap between the online world and physical stores of the present invention without departing from the spirit or scope of the invention. Thus, it is intended that the present invention cover the modifications and variations of this invention provided they come within

5 the scope of the appended claims and their equivalents.

What Is Claimed Is:

1. A hybrid sales system that bridges a gap between the online world and physical stores, comprising:
 - at least one merchant network device;
 - 5 at least one user interactive network device; and
 - at least one identification system,wherein the at least one merchant network device, the at least one user interactive network device, and the at least one identification system are interconnected by a network,
 - 10 wherein the at least one merchant network device contains information regarding physical stores, is programmed to receive from a registered user at the at least one user interactive network device at least one user request for information relating to at least one transaction, and to provide to the registered user at least one summary response including at least one list of physical stores that satisfy the at
 - 15 least one user request,wherein the at least one user interactive network device is programmed to communicate with the at least one merchant network device, and
 - wherein the at least one identification system notifies the at least one merchant network device or the at least one user interactive network device when
 - 20 the registered user completes the at least one transaction at a physical store.
2. The hybrid sales system according to claim 1, wherein the at least one identification system comprises at least one wireless information device that contains information regarding the registered user and is programmed to

communicate with the at least one merchant network device.

3. The hybrid sales system according to claim 1, wherein the at least one identification system comprises at least one non-volatile area of memory of the at least one user interactive network device that is capable of storing information
- 5 regarding the registered user.

4. The hybrid sales system according to claim 1, wherein the at least one identification system comprises:
- at least one memory card; and
- at least one card reader that is capable of reading information stored in the at
- 10 least one memory card and is programmed to communicate with the at least one merchant network device.

5. The hybrid sales system according to claim 1, wherein the at least one identification system comprises:
- at least one microprocessor card; and
- 15 at least one card reader that is capable of reading information stored in the at least one microprocessor card and is programmed to communicate with the at least one merchant network device.

6. The hybrid sales system according to claim 1, wherein the at least one identification system comprises at least one information appliance that is
- 20 capable of being integrated with the at least one user interactive network device, reads information regarding the registered user stored in the at least one user interactive network device, and is programmed to communicate with the at least one merchant network device.

7. The hybrid sales system according to claim 6, wherein the at least one information appliance includes a Personal Data Assistant, cellular telephone, interactive pager, and set-top box.

8. The hybrid sales system according to claim 1, wherein the at least one identification system comprises:

at least one magnetic card capable of storing information regarding the registered user; and

at least one card reader that is capable of reading information stored in the at least one magnetic card and is programmed to communicate with the at least one merchant network device.

9. The hybrid sales system according to claim 1, wherein the at least one identification system comprises:

at least one finger print scanning device that is used to identify the registered user; and

at least one point-of-transaction network device that is programmed to communicate with the at least one merchant network device.

10. The hybrid sales system according to claim 1, wherein the at least one identification system comprises:

at least one iris scanning device that is used to identify the registered user;

and

at least one point-of-transaction network device that is programmed to communicate with the at least one merchant network device.

11. The hybrid sales system according to claim 1, wherein the at least

one identification system comprises:

at least one face recognition device that is used to identify the registered user; and

at least one point-of-transaction network device that is programmed to communicate with the at least one merchant network device.

12. The hybrid sales system according to claim 1, wherein the at least one identification system comprises:

at least one voice recognition device that is used to identify the registered user; and

at least one point-of-transaction network device that is programmed to communicate with the at least one merchant network device.

13. The hybrid sales system according to claim 1, wherein the at least one identification system allows the registered user to manually enter an identification code and is capable of communicating with the at least one merchant network device.

14. The hybrid sales system according to claim 1, wherein the at least one user interactive network device is also the at least one identification system.

15. The hybrid sales system according to claim 1, wherein the at least one user interactive network device includes a personal computer, a dummy terminal, and an information appliance such as a Personal Data Assistant or a cellular telephone.

16. The hybrid sales system according to claim 1, wherein the information regarding physical stores contained in the at least one merchant

network device includes information regarding products at physical stores.

17. The hybrid sales system according to claim 1, wherein the information regarding physical stores contained in the at least one merchant network device includes information regarding services at physical stores.

5 18. The hybrid sales system according to claim 1, wherein the network interconnecting the at least one merchant network device, the at least one user interactive network device, and the at least one identification system is secured.

19. The hybrid sales system according to claim 1, wherein one or more of the devices comprising the hybrid sales system is secured.

10 20. The hybrid sales system according to claim 1, wherein the registered user who completes at least one qualifying user transaction is rewarded.

21. The hybrid sales system according to claim 20, wherein the at least one identification system comprises at least one wireless information device that contains information regarding the registered user and is programmed to
15 communicate with the at least one merchant network device.

22. The hybrid sales system according to claim 20, wherein the at least one identification system comprises at least one non-volatile area of memory of the at least one user interactive network device that is capable of storing information regarding the registered user.

20 23. The hybrid sales system according to claim 20, wherein the at least one identification system comprises:

at least one memory card; and

at least one card reader that is capable of reading information stored in the at

least one memory card and is programmed to communicate with the at least one merchant network device.

24. The hybrid sales system according to claim 20, wherein the at least one identification system comprises:

5 at least one microprocessor card; and

at least one card reader that is capable of reading information stored in the at least one microprocessor card and is programmed to communicate with the at least one merchant network device.

25. The hybrid sales system according to claim 20, wherein the at least one identification system comprises at least one information appliance that is capable of being integrated with the at least one user interactive network device, reads information regarding the registered user stored in the at least one user interactive network device, and is programmed to communicate with the at least one merchant network device.

15 26. The hybrid sales system according to claim 25, wherein the at least one information appliance includes a Personal Data Assistant, cellular telephone, interactive pager, and set-top box.

27. The hybrid sales system according to claim 20, wherein the at least one identification system comprises:

20 at least one magnetic card capable of storing information regarding the registered user; and

at least one card reader that is capable of reading information stored in the at least one magnetic card and is programmed to communicate with the at least one

merchant network device.

28. The hybrid sales system according to claim 20, wherein the at least one identification system comprises:

at least one finger print scanning device that is used to identify the

5 registered user; and

at least one point-of-transaction network device that is programmed to communicate with the at least one merchant network device.

29. The hybrid sales system according to claim 20, wherein the at least one identification system comprises:

10 at least one iris scanning device that is used to identify the registered user;

and

at least one point-of-transaction network device that is programmed to communicate with the at least one merchant network device.

30. The hybrid sales system according to claim 20, wherein the at least one identification system comprises:

at least one face recognition device that is used to identify the registered user; and

at least one point-of-transaction network device that is programmed to communicate with the at least one merchant network device.

20 31. The hybrid sales system according to claim 20, wherein the at least one identification system comprises:

at least one voice recognition device that is used to identify the registered user; and

at least one point-of-transaction network device that is programmed to communicate with the at least one merchant network device.

32. The hybrid sales system according to claim 20, wherein the at least one identification system allows the registered user to manually enter an
5 identification code and is capable of communicating with the at least one merchant network device.

33. The hybrid sales system according to claim 20, wherein the at least one user interactive network device is also the at least one identification system.

34. The hybrid sales system according to claim 20, wherein the at least
10 one user interactive network device includes a personal computer, a dummy terminal, and an information appliance such as a Personal Data Assistant or a cellular telephone.

35. The hybrid sales system according to claim 20, wherein the information regarding physical stores contained in the at least one merchant
15 network device includes information regarding products at physical stores.

36. The hybrid sales system according to claim 20, wherein the information regarding physical stores contained in the at least one merchant network device includes information regarding services at physical stores.

37. The hybrid sales system according to claim 20, wherein the network
20 interconnecting the at least one merchant network device, the at least one user interactive network device, and the at least one identification system is secured.

38. The hybrid sales system according to claim 20, wherein one or more of the devices comprising the hybrid sales system is secured.

39. A consumer purchase behavior analysis, comprising,
- at least one merchant network device;
 - at least one user interactive network device; and
 - at least one identification system,
- 5 wherein the at least one merchant network device, the at least one user interactive network device, and the at least one identification system are interconnected by a network,
- wherein the at least one merchant network device contains information regarding physical stores, is programmed to receive from a registered user at the at
- 10 least one user interactive network device at least one user request for information relating to at least one transaction, and to provide to the registered user at least one summary response including at least one list of physical stores that satisfy the at least one user request,
- wherein the at least one user interactive network device is programmed to
- 15 communicate with the at least one merchant network device,
- wherein the at least one user interactive network device is programmed to communicate with the at least one merchant network device,
- wherein the at least one identification system notifies the at least one merchant network device or the at least one user interactive network device when
- 20 the registered user completes the at least one transaction at a physical store,
- wherein at least one online browsing record and at least one actual transaction record are stored in the at least one merchant network device, the at least one user interactive network device, or the at least one identification system,

and

wherein the at least one online browsing record and the at least one actual transaction record are compared using the at least one merchant network device, the at least one user interactive network device, or the at least one identification

5 system.

40. The consumer purchase behavior analysis system according to claim 39, wherein the at least one identification system comprises at least one wireless information device that contains information regarding the registered user and is programmed to communicate with the at least one merchant network device.

10 41. The consumer purchase behavior analysis system according to claim 39, wherein the at least one identification system comprises at least one non-volatile area of memory of the at least one user interactive network device that is capable of storing information regarding the registered user.

42. The consumer purchase behavior analysis system according to claim 15 39, wherein the at least one identification system comprises:

at least one memory card; and

at least one card reader that is capable of reading information stored in the at least one memory card and is programmed to communicate with the at least one merchant network device.

20 43. The consumer purchase behavior analysis system according to claim 39, wherein the at least one identification system comprises:

at least one microprocessor card; and

at least one card reader that is capable of reading information stored in the at

least one microprocessor card and is programmed to communicate with the at least one merchant network device.

44. The consumer purchase behavior analysis system according to claim 39, wherein the at least one identification system comprises at least one information appliance that is capable of being integrated with the at least one user interactive network device, reads information regarding the registered user stored in the at least one user interactive network device, and is programmed to communicate with the at least one merchant network device.

45. The consumer purchase behavior analysis system according to claim 44, wherein the at least one information appliance includes a Personal Data Assistant, cellular telephone, interactive pager, and set-top box.

46. The consumer purchase behavior analysis system according to claim 39, wherein the at least one identification system comprises:
at least one magnetic card capable of storing information regarding the registered user; and

at least one card reader that is capable of reading information stored in the at least one magnetic card and is programmed to communicate with the at least one merchant network device.

47. The consumer purchase behavior analysis system according to claim 39, wherein the at least one identification system comprises:
at least one finger print scanning device that is used to identify the registered user; and
at least one point-of-transaction network device that is programmed to

communicate with the at least one merchant network device.

48. The consumer purchase behavior analysis system according to claim 39, wherein the at least one identification system comprises:

at least one iris scanning device that is used to identify the registered user;

5 and

at least one point-of-transaction network device that is programmed to communicate with the at least one merchant network device.

49. The consumer purchase behavior analysis system according to claim 39, wherein the at least one identification system comprises:

10 at least one face recognition device that is used to identify the registered user; and

at least one point-of-transaction network device that is programmed to communicate with the at least one merchant network device.

50. The consumer purchase behavior analysis system according to claim 15 39, wherein the at least one identification system comprises:

at least one voice recognition device that is used to identify the registered user; and

at least one point-of-transaction network device that is programmed to communicate with the at least one merchant network device.

20 51. The consumer purchase behavior analysis system according to claim 39, wherein the at least one identification system allows the registered user to manually enter an identification code and is capable of communicating with the at least one merchant network device.

52. The consumer purchase behavior analysis system according to claim 39, wherein the at least one user interactive network device is also the at least one identification system.

53. The consumer purchase behavior analysis system according to claim 39, wherein the at least one user interactive network device includes a personal computer, a dummy terminal, and an information appliance such as a Personal Data Assistant or a cellular telephone.

54. The consumer purchase behavior analysis system according to claim 39, wherein the information regarding physical stores contained in the at least one merchant network device includes information regarding products at physical stores.

55. The consumer purchase behavior analysis system according to claim 39, wherein the information regarding physical stores contained in the at least one merchant network device includes information regarding services at physical stores.

56. The consumer purchase behavior analysis system according to claim 39, wherein the network interconnecting the at least one merchant network device, the at least one user interactive network device, and the at least one identification system is secured.

57. The consumer purchase behavior analysis system according to claim 39, wherein one or more of the devices comprising the consumer purchase behavior analysis system is secured.

1 / 5

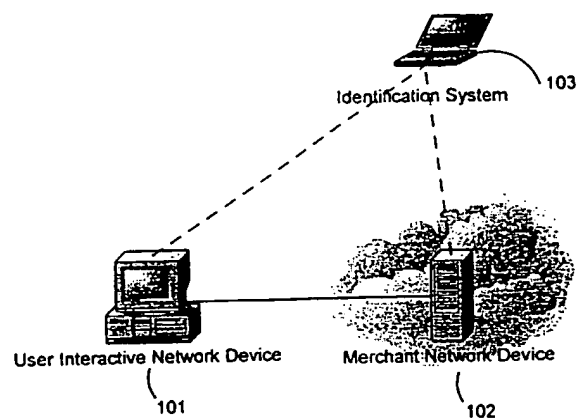


FIG. 1

2 / 5

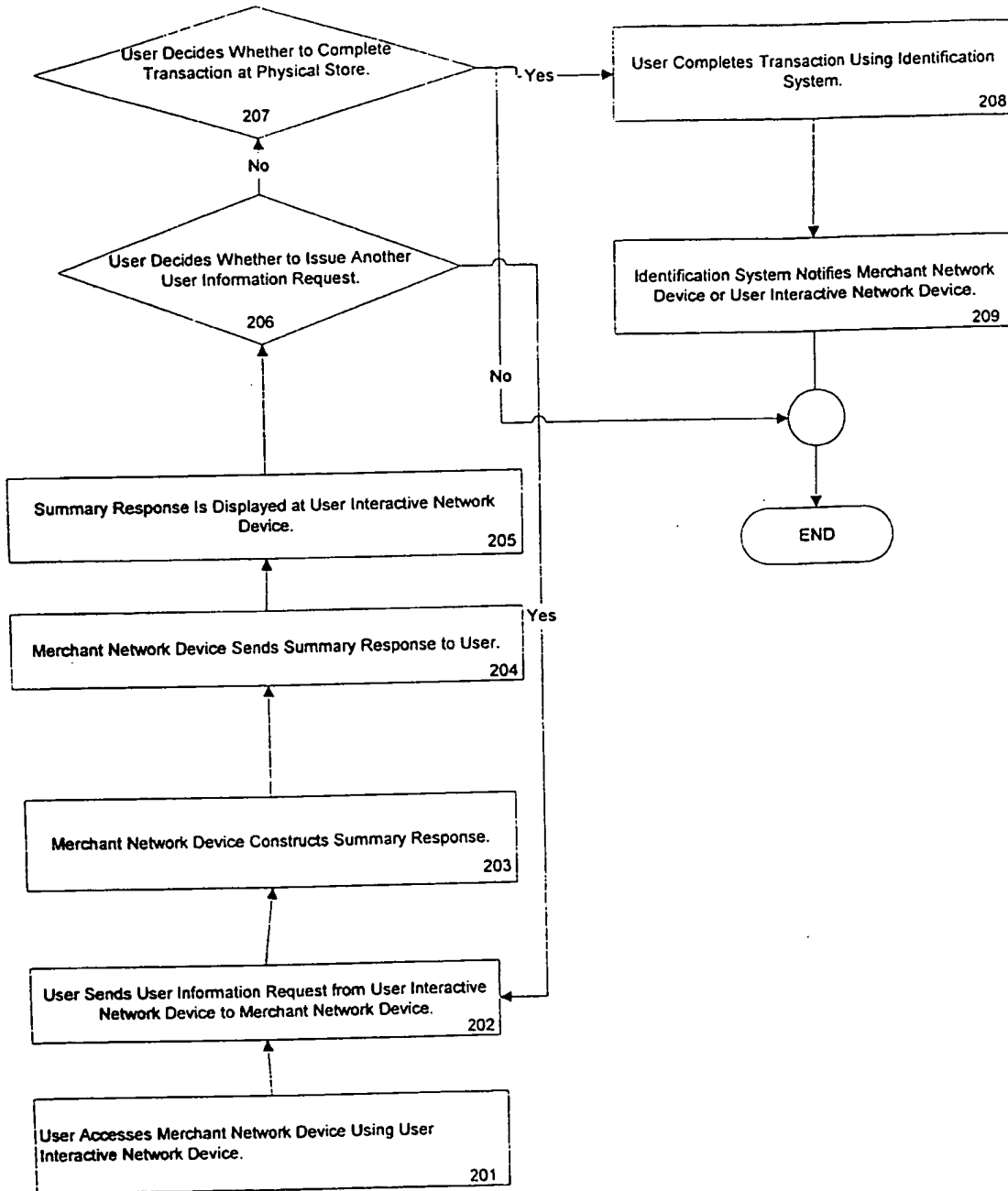


FIG. 2

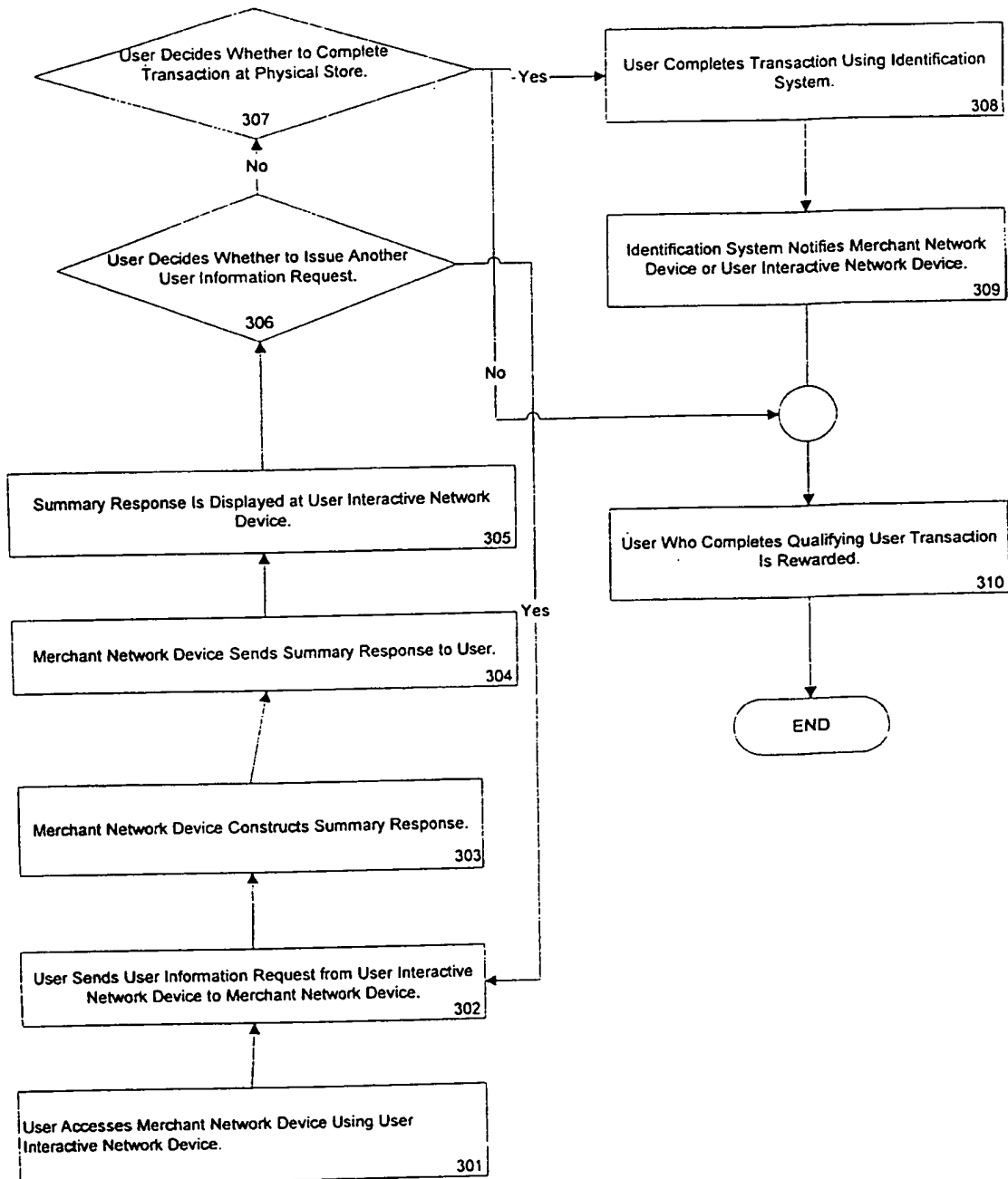


FIG. 3

4 / 5

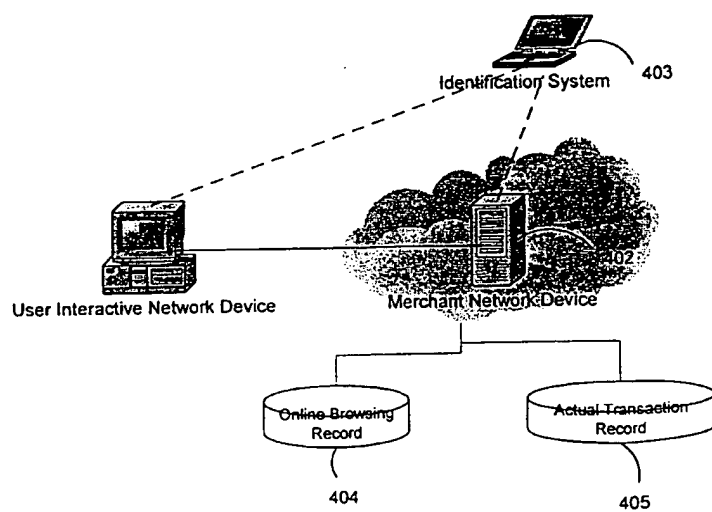


FIG. 4

5 / 5

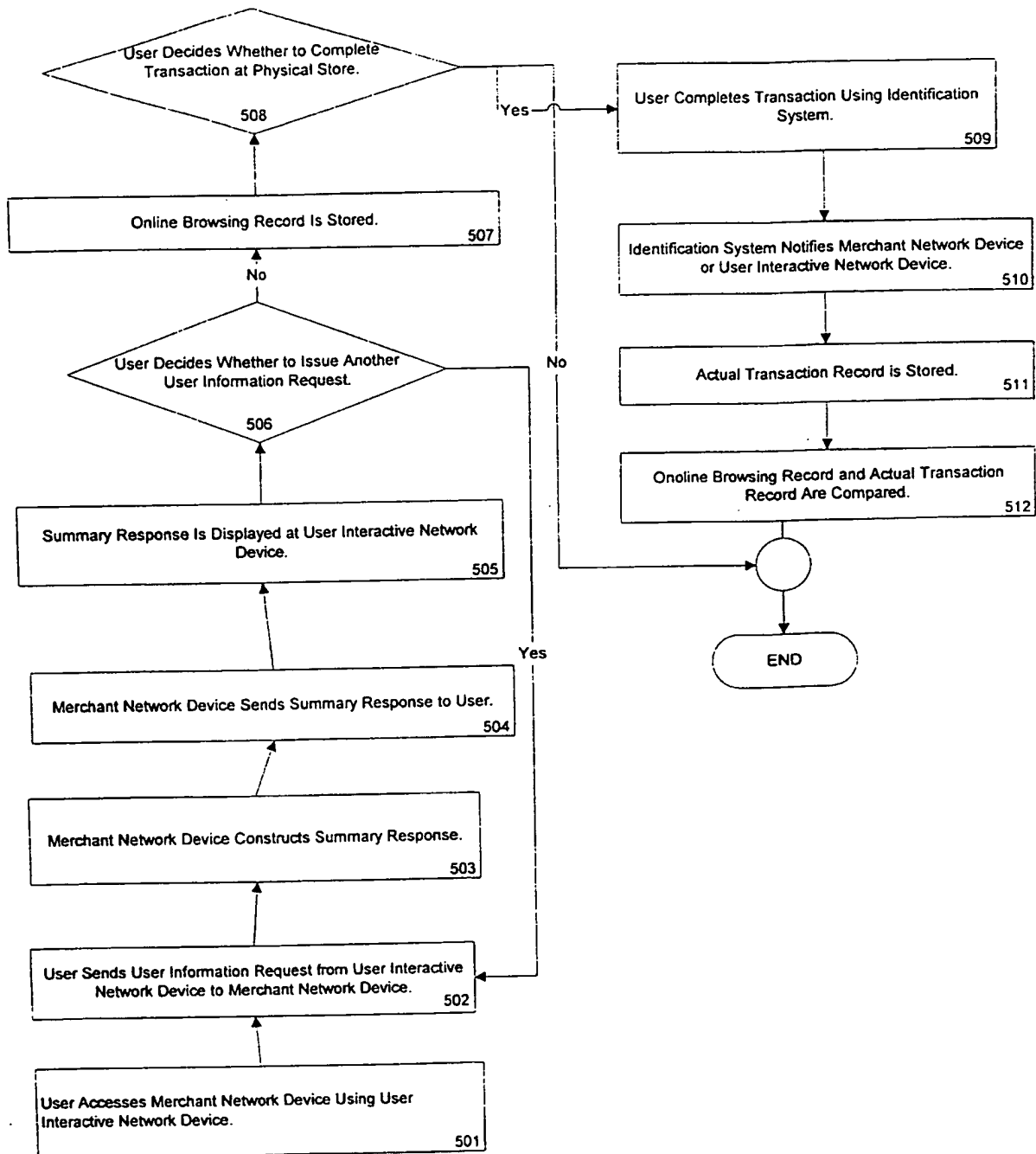


FIG. 5